General & Human Anatomy , Physiology –I BVOMLT-107

**Unit I**

Introduction to: Anatomy, epithelial tissue, muscular tissue, nervous tissue. Skeletal System, Structure of bones, types of bones, Bones of cranium, face vertebral column upper and lower limbs.

HSS/N0302/N030 4/N0305

Circulation System: Structure of heart, names and position of main blood vessels.

HSS/N0302/N030 4/N0305

Lymphatic System: Lymph vessels, lymph nodes and lymphoid organs, their structure & functions.

HSS/N0302/N030 4/N0305

Digestive systems.: Parts of gastrointestinal tract and associated glands.(names)

HSS/N0302/N030 4/N0305

Respiratory System:. Parts of Respiratory System.(diagram ,Name, function)

HSS/N0302/N030 4/N0305

**Unit II**

Basics of Physiology- I Blood. Composition and function of blood, haemopoesis, blood coagulation. Blood groups, body fluid. Cardiovascular Systems. Circulation of blood. function of heart and blood vessels. Control of heart rate, blood volume.(Diagram of heart and Functions in details) HSS/N0302/N030 4/N0305 Respiratory system.: Function of lungs, (theory) Respiration disorders like anoxia.dyspnea . (Theory) lung function tests.(theory) HSS/N0302/N030 4/N0305 Digestive Systems:. Digestion of food in mouth, stomach & small intestines. Absorption of food, function of liver. ( formation of bilirubin & other functions in detail) HSS/N0302/N030 4/N0305

Basic English Grammar Use of Articles and Prepositions, Tense, Transformation of HSS/N9603/N960

**Unit III**

Sentences, Parts of Speech, Idioms and Pharses, Vocabulary a) Synonyms b) Antonyms c) One Word Substitution d) Homophones & Homonyms, Punctuations, Common Errors, Spelling in English

4/N9605/N9607

Composition Formal & Informal Writing, Precise, Essay Writing, Report Writing, HSS/N9603/N960 4/N9605/N9607 Reading Comprehension HSS/N9603/N960 4/N9605/N9607

**Unit IV**

Human Values and Professional Ethics Introduction Need, basic guidelines, content and process for Value Education, Self Exploration- its content and process; ‘Natural Acceptance’ and Experiential Validation- as the mechanism for self exploration. Continuous Happiness and Prosperity- basic Human Aspirations, Right , Relationship and Physical Facilities- the basic requirements for fulfillment of aspirations of every human being with their correct priority, Happiness and Prosperity .A critical appraisal of the current scenario, Method to fulfill the above human aspirations: understanding and living in harmony at various levels Implications of Harmony on Professional Ethics Natural acceptance of human values, Definitiveness of Ethical Human Conduct, Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order , Competence in professional ethics: Ability to utilize the professional competence for augmenting universal human order, Ability to identify the scope and characteristics of people-friendly and ecofriendly production systems, Ability to identify and develop appropriate technologies and management patterns for above production systems, Case studies of typical holistic technologies, management models and production systems, Strategy for transition from the present state to Universal Human Order: at the level of individual: as socially and ecologically responsible engineers, technologists and managers, at the level of society: as mutually enriching institutions and organizations